

SKF 81117 TN

Single row cylindrical roller thrust bearing, single direction



Single row cylindrical roller thrust bearings are designed to accommodate heavy axial loads and peak loads in one direction, but not radial loads. They provide a high degree of stiffness and require little axial space. They are mainly used in applications where thrust ball bearings do not have sufficient load carrying capacity. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

Technical specifications

Dimensions	
Bore diameter	85 mm
Outside diameter	110 mm
Height	19 mm
Outside diameter shaft washer	110 mm
Bore diameter housing washer	87 mm
Height shaft washer	5.75 mm
Chamfer dimension housing washer	1 mm

Abutment dimensions	
Abutment diameter shaft	108 mm
Abutment diameter housing	87 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	88 kN
Basic static load rating	365 kN
Fatigue load limit	37.5 kN
Reference speed	1500 r/min
Limiting speed	3000 r/min
Minimum axial load factor	0.01

Included products	
Roller and cage thrust assembly	K 81117 TN
Shaft washer	WS 81117
Housing washer	GS 81117

Performance	
Basic dynamic load rating	88 kN
Basic static load rating	365 kN
Reference speed	1500 r/min
Limiting speed	3000 r/min

Properties	
Bearing part	Complete bearing
Axial load capability	Single-direction
Number of rows	1
Cage	Non-metallic
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Indicative carbon footprint for new product	1.5 kg CO ₂

Logistics	
Product net weight	0.42 kg
UNSPSC code	31171505

SKF drawings

